
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: von Düring

Attorney Docket No.: ELIOP001

Application No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: February 13, 2002

Group: Unknown

Title: BATTERY, ESPECIALLY FLAT CELL

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Prior to a first action on its merits, please consider the following:

In the Claims:

All pending claims have been reproduced below for the convenience of the Examiner.

1. (Once Amended) A battery, comprising an electrode of lithium-metal or lithium-alloy, an electrode containing an active material intercalating lithium ions, a separator between both electrodes, and a housing enclosing the electrodes and the separator with connector tabs for both electrodes, characterized by the fact that at least one of the electrodes is a multi-layer body built by multiple folds and by an equal layer-thickness of the active material between the folded layers.

Please **CANCEL** claims 2-13.

Please **ADD** new claims 14-25.

14. (New) A battery according to claim 1, wherein the folding is a Leporello (zig-zag)-folding.

15. (New) A battery according to claim 1, wherein the folding is a coil folding.

16. (New) A battery according to claim 1, wherein the electrode comprises a carrier material permeable for ions coated with active material of equal layer-thickness on both sides.

17. (New) A battery according to claim 1, wherein the electrode comprises a carrier material permeable for ions coated with active material having a different layer-thickness on each side.

18. (New) A battery according to claim 17, wherein the carrier material is coated on one of its sides with a thin layer of active material.

19. (New) A battery according to claim 17, wherein the carrier material is coated on its other side with a thick layer of active material on every other fold.

20. (New) A battery according to claim 17, wherein the carrier material is coated on one of its sides with a thin layer of active material, and coated on its other side with a thick layer of active material on every other fold, and

wherein the thickness of the thin layer coating of active material on one side of the carrier material is half the thickness of the thick layer coating of active material on the other side of the carrier material.

21. (New) A battery according to claim 1, wherein the multi-fold body comprises at least two folds.

22. (New) A battery according to claim 1, wherein the multi-fold body comprises at least four folds.

23. (New) A battery according to claim 1, wherein the layer thickness of the active material is between 25 μ m and 150 μ m .

24. (New) A battery according to claim 1, wherein the layer thickness of the active material is between 40 μ m and 110 μ m.

25. (New) A battery according to claim 1, where the overall thickness of the folded, multi-layer body is less than 500 μ m.

REMARKS

Claim 1 has been amended. Claims 2-13 have been canceled. Claims 14-25 have been added. Claims 1 and 14-25 are currently pending in this application.

Applicant believes that all pending claims are allowable and respectfully requests a Notice of Allowance for this application from the Examiner. Should the Examiner believe that a telephone conference would expedite the prosecution of this application, the undersigned can be reached at the telephone number set out below.

Respectfully submitted,

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MARKED UP VERSION INDICATING CHANGES MADE

1. (Once Amended) A battery [Battery, especially flat cell], comprising an electrode of lithium-metal or lithium-alloy, an electrode containing an active material intercalating lithium ions, a separator between both electrodes, and a housing enclosing the electrodes and the separator with connector tabs for both electrodes, characterized by the fact that at least one of the electrodes [(1; 2; 3)] is a multi-layer body built by multiple folds and by an equal layer-thickness of the active material [(4; 12; 13)] between the folded layers.